

2019

# BioRoc™

PROOF-OF-CONCEPT





# BioRoc™

## TEST OBJECTIVE

Evaluate Candeo's NaturaTerra™ Hemp Blend (BioRoc™ and PoweRoc™) as a sole nutrient source for growing industrial hemp.

## TEST PLOT

One-acre field at InnoTech Alberta Research Farm.

**Hemp Variety:**  
Joey (fibre-type)

## TEST MATERIAL

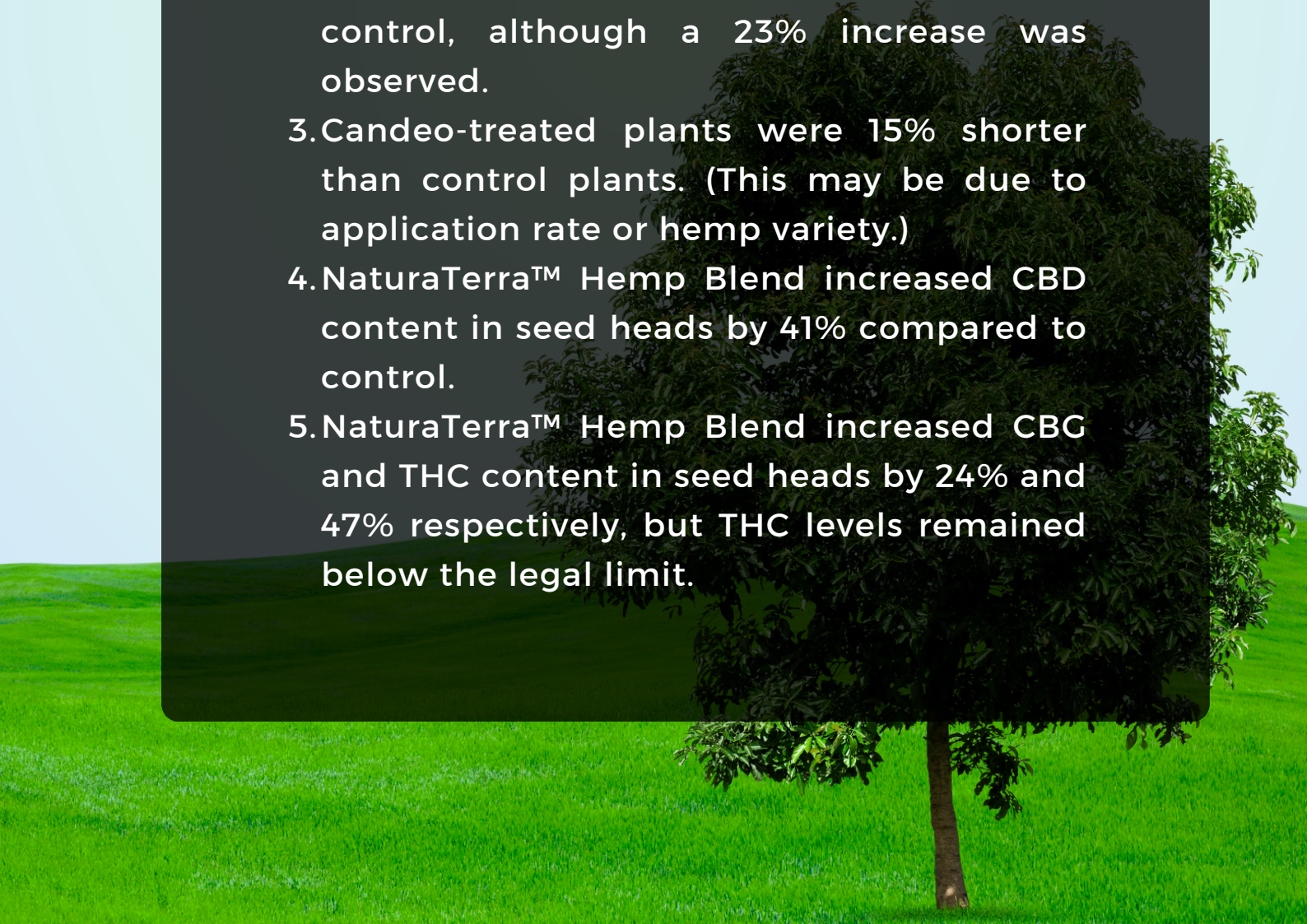
1. NaturaTerra™ Hemp Blend applied at 4000 lb./acre compared to a control field with standard NPK fertilisers (120 lb./acre N, 60 lb./acre P, 20 lb./acre S).



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The logo 'BioRoc™' is displayed in white text against a dark blue background. Several green leaves of varying sizes are scattered around the text, some appearing to float or fall from the top.

## KEY FINDINGS

1. NaturaTerra™ Hemp Blend increased grain yield by 72% compared to the control field.
  2. No significant difference in total aboveground biomass compared to control, although a 23% increase was observed.
  3. Candeo-treated plants were 15% shorter than control plants. (This may be due to application rate or hemp variety.)
  4. NaturaTerra™ Hemp Blend increased CBD content in seed heads by 41% compared to control.
  5. NaturaTerra™ Hemp Blend increased CBG and THC content in seed heads by 24% and 47% respectively, but THC levels remained below the legal limit.
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- A large, leafy green tree stands in a vibrant green field under a clear sky. The tree is positioned on the right side of the image, with its branches extending towards the center.





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## CONCLUSIONS

1. NaturaTerra™ Hemp Blend shows promise for increasing grain yield and cannabinoid content in hemp.
2. Further research is needed with replicated plots and different application rates.
3. Investigation into the mode of action of the product is recommended.